

Source: TSG SA1

Title: CR to 22.140 on Incorporating Instant Messaging Capabilities in MMS (R4)

Document for: Approval

Agenda Item: 7.1.3

Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc. No.
22.140	003		R4	B	Incorporating Instant Messaging Capabilities in MMS	4.0.0	4.1.0	S1-000868

TSG-SA WG 1 (Services) meeting #10
Orlando, USA 13th to 17th November 2000

TSG S1 (00) 868
Agenda Item: 8.2

CR-Form-v3			
CHANGE REQUEST			
✍	22.140 CR	003	✍ rev - ✍
			1: 4.0.0 ✍

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ✍ symbols.

Proposed change affects: ✍ (U)SIM ME/UE Radio Access Network Core Network

Title:	✍	Incorporating Instant Messaging Capabilities in MMS	
Source:	✍	SA1	
Work item code:	✍	MMS (1818)	Date: ✍ 17 th November 2000
Category:	✍	B	Release: ✍ Rel-4
		<p>Use <u>one</u> of the following categories:</p> <p>F (essential correction)</p> <p>A (corresponds to a correction in an earlier release)</p> <p>B (Addition of feature),</p> <p>C (Functional modification of feature)</p> <p>D (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>	<p>Use <u>one</u> of the following releases:</p> <p>2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>REL-4 (Release 4)</p> <p>REL-5 (Release 5)</p>

Reason for change:	✍	Operators' wish to integrate Instant Messaging Features to MMS	
Summary of change:	✍	Introducing Presence, Additional Security Features	
Consequences if not approved:	✍		

Clauses affected:	✍	3.1, 4, 5.1, 5.3, 6, 7	
Other specs affected:	✍	<input checked="" type="checkbox"/> Other core specifications	✍ 23.140
		<input type="checkbox"/> Test specifications	
		<input type="checkbox"/> O&M Specifications	
Other comments:	✍		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at:

http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ✍ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://www.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

3 Definitions and abbreviations

3.1 Definitions

Recipient : the recipient is the entity to which a MM has been sent.

Sender: the sender is the entity that sent a MM.

User: the user is the MM sender or the MM recipient.

message element: a message element is a part of a MM consisting of only one media type.

multimedia message: a multimedia message is a message composed of one or more message elements.

multimedia message service: A multimedia message service allows transfer of multimedia messages between users without the requirement for the multimedia messages to be transferred in real-time.

media types: a media type refers to one form of presenting information to a user, e.g. voice or fax. **media formats**: within one media type different media formats are applicable for the media presentation, e.g. a picture can be GIF or JPEG format.

network: for the purposes of supporting multimedia messaging, the term network shall be considered to include the mobile operator's network and any functionality which may exist outside the mobile operator's network (i.e. fixed, internet and multimedia technologies etc.), and the support provided by that functionality for multimedia messaging.

service capabilities features: see Reference [2].

[Instant Messaging – A messaging application enabling a Sender to see the on-line Availability of members of his Contact List, and to send messages to them. Recipients of Instant Messages will be notified immediately of the messages received, and, where applicable, receive those messages instantaneously.](#)

[Reachability - The situation when a MMS user is connected to a wireless operator and he can send and receive messages](#)

[Availability \(on-line presence\) - The situation when a MMS user has indicated \(intentionally or by default\) that he can be reached via an Instant Messaging application. The user will be seen as available to other users who include him in their contact lists.](#)

[Presence – Availability of users, filtered by criteria defined by the user e.g.– location based criteria to be shown only to certain other users, availability not shown to other users \(Invisible list\) etc.](#)

[Contact List – A list of Instant Messaging subscribers \(from the same Instant Messaging/MMS service providers or from other wireless/fixed Instant Messaging service which an Instant Messaging user composes.\) The presence of members of the contact list will be shown to the user.](#)

3.2 Abbreviations

For the purposes of this document the following abbreviations apply:

MM	Multimedia Message
MMS	Multimedia Message Service
SMS	Short Message Service

4 High level Requirements

The following list gives the high level requirements of the MMS. These are requirements which are independent of the user's perception of the service:-

? Forward compatible multimedia messaging

Multimedia messaging mechanisms shall provide the capability to support current and evolving multimedia messaging by re-using existing standards as far as possible and proposing extensions (as necessary) to existing standards (i.e. the multimedia messaging service shall support the evolution of multimedia messaging technologies).

? Consistent messaging

Regardless of the message type / format, MMS shall be capable of supporting integration of all types of messaging (e.g. fax, SMS, Multimedia , voicemail, e-mail etc.) in a consistent manner.

? Interoperability

The MMS shall support a minimum set of functionality and message formats to ensure interoperability. (e.g. deletion of MM, identified standardised message notification, message media types and message content formats)

The MMS shall provide a minimum set of supported formats to ensure full interoperability between different terminals and networks from the very beginning of service provisioning (e.g. JPEG for pictures, MP3 for audio, MPEG for motion pictures, etc.).

? Instant Messaging

The MMS shall support Instant Messaging capabilities

o creation of "contact lists"

o notification of presence of members of "contact list"

o security mechanisms for the protection of users' privacy. (i.e. – approval of inclusion in contact lists, hiding or showing presence information)

The MMS shall provide for Interoperability with fixed Internet Instant messaging systems, based on accepted Internet standards

The MMS shall be able to manage "communities" of users with similar profiles or interests

******* Next changed section *******